



(12) **United States Plant Patent**  
**Smith**

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(54) **DENDRANTHEMA PLANT NAMED**  
**‘PUMPKIN IGLOO’**

(50) Latin Name: *Dendranthema*×*morifolium*  
Varietal Denomination: **Pumpkin Igloo**

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patent is extended or adjusted under 35  
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(52) **U.S. Cl.**  
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(57) **ABSTRACT**

A new and distinct cultivar of *Dendranthema* plant named  
‘Pumpkin Igloo’, characterized by its upright, outwardly  
spreading and uniformly mounded to almost spherical plant  
habit; freely branching habit; dense and full plant form; uni-  
form and freely flowering habit; daisy-type inflorescences;  
orange bronze-colored ray florets; natural season flowering  
occurs about September 13 to 20 in Pennsylvania; and good  
garden performance and winter hardiness.

**2 Drawing Sheets**

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Botanical designation: *Dendranthema*×*morifolium*.  
Cultivar denomination: ‘PUMPKIN IGLOO’.

#### BACKGROUND OF THE INVENTION

The present invention relates to a new and distinct *Den-*  
*dranthema* plant, botanically known as *Chrysanthemum*×  
*morifolium*, commercially grown as a perennial garden-type  
*Dendranthema* plant, and hereinafter referred to by the cul-  
tivar name ‘Pumpkin Igloo’.

The new *Dendranthema* is the product of a planned breed-  
ing program conducted by the Inventor in Alva, Fla. The  
objective of the breeding program is to create new perennial  
garden-type *Dendranthema* plants having uniformly mound-  
ing plant habit, inflorescences with desirable inflorescence  
forms, attractive ray and disc floret shapes and colors, winter  
hardiness and good garden performance.

The new *Dendranthema* plant is a naturally-occurring  
whole plant mutation of a proprietary selection of *Chrysan-*  
*themum*×*morifolium* identified as code number N0534, not  
patented. The new *Dendranthema* plant was discovered and  
selected by the Inventor as a single flowering plant within a  
population of plants of the mutation parent selection in a  
controlled greenhouse environment in Alva, Fla. on Nov. 26,  
2008.

Asexual reproduction of the new *Dendranthema* plant by  
vegetative cuttings was first conducted in a controlled green-  
house environment in Alva, Fla. in January, 2009 and such  
asexual propagation has shown that the unique features of this  
new *Dendranthema* plant are stable and reproduced true to  
type in successive generations.

#### SUMMARY OF THE INVENTION

Plants of the new *Dendranthema* have not been observed  
under all possible combinations of environmental conditions  
and cultural practices. The phenotype may vary somewhat

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with variations in environmental conditions such as tempera-  
ture, daylength and light intensity, without, however, any  
variance in genotype.

The following traits have been repeatedly observed and are  
determined to be the unique characteristics of ‘Pumpkin  
Igloo’. These characteristics in combination distinguish  
‘Pumpkin Igloo’ as a new and distinct garden-type *Dendran-*  
*thema* plant:

1. Upright, outwardly spreading and uniformly mounded  
to almost spherical plant habit.
2. Freely branching habit; dense and full plant form.
3. Uniform and freely flowering habit.
4. Daisy-type inflorescences.
5. Orange bronze-colored ray florets.
6. Natural season flowering occurs about September 13 to  
20 in Pennsylvania.
7. Good garden performance and winter hardiness.

In side-by-side comparisons, plants of the new *Dendran-*  
*thema* differ from plants of the mutation parent selection  
primarily in ray floret color as plants of the mutation parent  
selection have salmon pink-colored ray florets.

Plants of the new *Dendranthema* can be compared to plants  
of *Chrysanthemum*×*morifolium* ‘Dazzling Yostacy’, dis-  
closed in U.S. Plant Pat. No. 13,222. In side-by-side compari-  
sons, plants of the new *Dendranthema* differ from plants of  
‘Dazzling Yostacy’ in the following characteristics:

1. Plants of the new *Dendranthema* are slightly larger than  
plants of ‘Dazzling Yostacy’.
2. Plants of the new *Dendranthema* flower earlier than  
plants of ‘Dazzling Yostacy’.
3. Plants of the new *Dendranthema* and ‘Dazzling Yostacy’  
differ in ray flower color as plants of ‘Dazzling Yostacy’  
have red and yellow bi-colored ray florets.

#### BRIEF DESCRIPTION OF THE PHOTOGRAPHS

The accompanying photographs illustrate the overall  
appearance of the new *Dendranthema* showing the colors as



true as it is reasonably possible to obtain in colored reproductions of this type. Colors in the photographs may differ slightly from the color values cited in the detailed botanical description which accurately describe the colors of the new *Dendranthema* plant.

The photograph on the first sheet comprises a side perspective view of a typical flowering plant of 'Pumpkin Igloo' grown in a container.

The photograph on the second sheet is a close-up view of a typical flowering plant of 'Pumpkin Igloo'.

#### DETAILED BOTANICAL DESCRIPTION

The aforementioned photographs and following observations and measurements describe plants grown during the early autumn in 25-cm containers in a polyethylene-covered greenhouse in Lancaster, Pa. and under cultural practices typical of commercial garden-type *Dendranthema* production. During the production of the plants, day temperatures averaged 26.7° C. and night temperatures ranged from 15.6° C. to 18.3° C. Plants were five months old when the photographs and description were taken. In the following description, color references are made to The Royal Horticultural Society Colour Chart, 2007 Edition, except where general terms of ordinary dictionary significance are used.

Botanical classification: *Chrysanthemum*×*morifolium* 'Pumpkin Igloo'.

Parentage: Naturally-occurring whole plant mutation of a proprietary selection of *Chrysanthemum*×*morifolium* identified as code number N0534, not patented.

Propagation:

*Type*.—Terminal vegetative cuttings.

*Time to produce a rooted young plant*.—About two weeks.

*Root description*.—Fine, fibrous; white in color.

*Rooting habit*.—Freely branching, dense.

Plant description:

*Plant and growth habit*.—Perennial garden-type *Dendranthema* plant with daisy-type inflorescences; upright, outwardly spreading and uniformly mounding to almost spherical plant habit; strong and vigorous growth habit.

*Branching habit*.—Freely branching habit, about primary lateral branches developing at potentially every node, each primary lateral with multiple secondary and tertiary branches; dense and full plant form; pinching is not required.

*Plant height*.—About 24 cm.

*Plant width*.—About 37.5 cm.

*Lateral branches*.—Length: About 17.5 cm. Diameter: About 125 mm. Internode length: About 1.25 cm. Strength: Strong. Texture: Pubescent, minute; longitudinally ridged. Color: Close to 146A.

*Leaves*.—Arrangement: Alternate, simple. Length: About 3.2 cm. Width: About 2.2 cm. Apex: Cuspidate to mucronate. Base: Attenuate to truncate. Margin: Palmately lobed, sinuses between lateral lobes mostly parallel to divergent. Texture, upper surface: Smooth, glabrous. Texture, lower surface: Pubescent, minute; veins prominent on lower surface. Venation pattern: Pinnate. Color: Developing and fully expanded leaves, upper surface: Close to N137A; venation, close to 137A. Developing and fully expanded leaves, lower surface: Close to 137B; venation, close to 146A. Petioles: Length: About 1.1 cm. Diameter:

About 3 mm. Texture, upper surface: Smooth, glabrous. Texture, lower surface: Pubescent; minute. Color, upper surface: Close to N137A. Color, lower surface: Close to 137B.

5 Inflorescence description:

*Type and arrangement*.—Daisy-type inflorescence form with elongated oblong-shaped ray florets; disc and ray florets arranged acropetally on a capitulum; inflorescences face mostly upright to outwardly and held above and beyond the foliar plane on strong peduncles.

*Fragrance*.—None detected.

*Flowering response*.—Under natural season conditions, plants flower about September 13 to 20 in Pennsylvania.

*Postproduction longevity*.—Inflorescences maintain good color and substance for about three to six weeks on the plant depending on temperatures; inflorescences persistent.

*Quantity of inflorescences*.—Freely flowering habit with about five inflorescences developing per lateral branch.

*Inflorescence buds*.—Height: About 3 mm. Diameter: About 4 mm. Shape: Oblate. Color: Close to N137A to N137B.

*Inflorescence size*.—Diameter: About 3.6 cm. Depth (height): About 1.1 cm. Disc diameter: About 9 mm. Receptacle diameter: About 4 mm. Receptacle height: About 3.5 mm.

*Receptacle color*.—Close to 144B.

*Ray florets*.—Quantity and arrangement: About 64 ray florets develop per inflorescence and arranged in about three to four whorls. Length: About 2.1 cm. Width: About 4 mm. Shape: Elongated oblong. Apex: Mostly obtuse. Base: Attenuate and then fused into a short tube. Margin: Entire. Orientation: Initially upright, then arching outwardly. Texture, upper and lower surfaces: Smooth, glabrous; velvety; longitudinally ribbed. Color: When opening, upper surface: Close to N172B. When opening, lower surface: Close to 163B to 163C. Fully opened, upper surface: Close to N172C; color does not fade with development. Fully opened, lower surface: Close to 163C; color does not fade with development.

*Disc florets*.—Quantity and arrangement: About 64 fused disc florets develop per inflorescence and massed at the center of the capitulum. Length: About 5 mm. Diameter: About 1.5 mm. Shape: Tubular, elongated. Apex: Five-pointed. Texture, inner and outer surfaces: Smooth, glabrous. Color, mature: Apex: Close to 12A. Mid-section: Close to 150D. Base: Close to NN155D.

*Phyllaries*.—Quantity and arrangement: About 14 phyllaries develop per inflorescence and arranged in about two whorls. Length: About 5 mm. Width: About 2 mm. Shape: Lanceolate. Apex: Acute. Base: Truncate, fused. Margin: Entire; membranous. Texture, upper surface: Smooth, glabrous. Texture, lower surface: Pubescent, minute. Color, upper and lower surfaces: Close to 137A.

*Peduncles*.—Length, terminal peduncle: About 3 cm. Length, fourth peduncle: About 4.4 cm. Diameter, terminal peduncle: About 1.5 mm. Angle: Mostly upright or curving upright. Strength: Strong, wiry. Texture: Pubescent; minute. Color: Close to 146A.

*Reproductive organs*.—Androecium (present on disc florets only): Stamen number: Five per floret. Filament length: About 4 mm. Filament color: Close to 150D. Anther length: Less than 1 mm. Anther shape: Narrowly oblong. Anther color: Close to 12A. Pollen amount: None observed. Gynoecium (present on ray and disc florets): Pistil length: About 4.5 mm. Stigma shape: Bi-parted. Stigma color: Close to 6A. Style length: About 4 mm. Style color: Close to 154D. Ovary color: Close to 144A.

*Seeds and fruits*.—Seed and fruit production has not been observed on plants of the new *Dendranthema*.

Disease & pest resistance: Resistance to pathogens and pests common to *Dendranthema* plants has not been observed on plants of the new *Dendranthema* grown under commercial production conditions.

5 Garden performance & temperature tolerance: Plants of the new *Dendranthema* have demonstrated excellent garden performance, are hardy to USDA Zone 5 and tolerate high temperatures about 37.8° C.

It is claimed:

10 1. A new and distinct *Dendranthema* plant named ‘Pumpkin Igloo’ as illustrated and described.

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